

COATINGS CASE STUDY 5 Surface Coating Blending

Customer Requirements

A development company contacted Exwold requiring the scale-up of a blend which had been produced only at laboratory scale.

It comprised of 7 component powders including a dye at 0.3% of the total formulation. The dye would be provided in a powder form and it was essential that the dye was homogeneously distributed across the blend.

Exwold's Solution

A small scale pre-mix was produced with the dye to ensure it was accurately weighed and homogeneous. This was produced using 3kgs of dye in a 100kg pre-mix using a high shear mixer.

Other component parts were charged to the production scale ribbon blender and the pre-mix added in small quantities during the charging process to ensure absolute homogeneity.



Samples were taken throughout the process to visually check homogeneity and optimise the mixing time.

This process is now a well-established production process with 2-3 campaigns of 100mt plus being produced annually.

Since introduction various adaptations of this formulation have also been introduced to support the client's portfolio.

